

## INDEX.

---

- Acids, The Reactions of Earthworms to, 576.
- Aero Club of America, Invitation from, 553.
- Aeroplanes, The future of, 554.
- Agassiz, Alexander, Letter from, 555; Death of, 565.
- Air, Resistance of, to a Swinging Magnet, 558.
- Air Resistance to Falling Inch Spheres, 377, 560.
- American Philosophical Society, Letter from, 553, 560.
- American Scientific Congress, 565.
- Ames, J. B., Death of, 559.
- Amphibians, The Reactions of, to Light, 159, 559.
- Antimony, The Quantitative Determination of, by the Gutzeit Method, 19, 554.
- Antarctic exploration, 554, 555.
- Assessment, Annual, Amount of, 573.
- Association des Ingénieurs Electiciens sortis de l'Institut electrotechnique Montefiore, circular from, 566.
- Atomic Weight of Phosphorus, A Revision of the, 135, 554.
- Beernaert, A., Letter from, 559.
- Baxter, G. P., and Jones, G., A Revision of the Atomic Weight of Phosphorus. First Paper. — The Analysis of Silver Phosphate, 135, 554.
- Benedict, F. G., accepts Resident Fellowship, 553.
- Biddlecombe, A., Letter from, 560.
- Boston "1915" Director, Circular from, 565.
- Boston "1915" Directorate Conference, 561.
- Boston "1915" Committee, Circular from, 553, 560.
- Bowditch, C. P., Report of Treasurer, 566.
- Burlingame, E. W., Buddhaghosa's Dhammapada Commentary, and the Titles of its three hundred and ten Stories, together with an Index thereto and an Analysis of Vaggas I.-IV., 465, 558.
- Calcium Carbide. On the Equilibrium of the System consisting of Lime, Carbon, Calcium Carbide and Carbon Monoxide, 429, 561.
- Campbell, L. L. See Hall, Edwin H., and Campbell, L. L.
- Carbon. On the Equilibrium of the System consisting of Lime, Carbon, Calcium Carbide and Carbon Monoxide, 429, 561.
- Carbon Compound, The Spectrum of a, in the Region of Extremely Short Wave-Lengths, 313, 558.
- Carbon Dioxide, On the Applicability of the Law of Corresponding States to the Joule-Thomson Effect in Water and, 241, 558.
- Carbon Monoxide. On the Equilibrium of the System consisting of Lime, Carbon, Calcium Carbide and Carbon Monoxide, 429, 561.
- Charter, Amendment of, 558, 562.
- Chaucer, Moot Points about, 556.
- Chemical Compositions, Average, of Igneous-Rock Types, 209, 558.
- Chemical Laboratory of Harvard College, Contributions from, 19, 135.

- Chlorsulphonic Acid, The Preparation and Properties of, 554.
- Circuits, The Equivalent, of Composite Lines in the Steady State, 29, 554.
- Committees, Standing, appointed, 574; List of, 577.
- Congress of Americanists, Seventeenth, 566.
- Coolidge, A. C., elected Resident Fellow, 575.
- Council, Report of, 566; Financial Report of, 572.
- Cross, C. R., Report of the Rumford Committee, 569.
- Curtis, Charles Gordon, awarded Rumford Premium, 573.
- Daly, R. A., Average Chemical Compositions of Igneous-Rock Types, 207, 558.
- Davis, H. N., Notes on Certain Thermal Properties of Steam, 265, 558. On the Applicability of the Law of Corresponding States to the Joule-Thomson Effect in Water and Carbon Dioxide, 241, 558.
- Davis, W. M., The Italian Riviera Levante, 561.
- Derr, L., Photographs of Yellowstone National Park, 558.
- Dhammapada Commentary, Buddhaghosa's, 465, 558.
- Dixon, R. B., elected Resident Fellow, 575.
- Dolbear, A. E., Death of, 561.
- Domalép, K., Death of, 557.
- Earthworms, The Reactions of, to Acids, 576.
- Echeandia, A Preliminary Synopsis of the Genus, 387, 560.
- Edes, H. H., Some Lacunae in the Archives of the Academy, 564.
- Electric Circuits and their Mechanical Analogies, The Effects of Sudden changes in the Inductances of Certain Forms of, 575.
- Electrical Oscillations of a Hertz Rectilinear Oscillator, Experiments on the, 323, 558.
- Electricity, Discharges of, through Hydrogen, 453, 558.
- Electrolysis, Some Minute Phenomena of, 369, 559.
- Elia De Cyon prize, 1910, 561.
- Evaporation from the Surface of a Solid Sphere, On, 361, 561.
- Ewell, A. W., accepts Resident Fellowship, 553.
- Fairbanks, Arthur, elected Resident Fellow, 559; accepts Resident Fellowship, 560.
- Farlow, W. G., Delegate to International Botanical Congress, 559.
- Fellows, Associate, deceased, —  
S. W. Johnson, 562.  
H. C. Lea, 557.  
Simon Newcomb, 554.  
J. M. Ordway, 554.  
W. Sellers, 562.  
W. G. Sumner, 565.
- Fellows, Associate, elected, —  
W. A. Heidel, 559.
- Fellows, Associate, List of, 585.
- Fellows, Resident, deceased, —  
Alexander Agassiz, 565.  
J. B. Ames, 559.  
M. H. Morgan, 565.
- Fellows, Resident, elected, —  
A. C. Coolidge, 575.  
R. B. Dixon, 575.  
Arthur Fairbanks, 559.  
W. C. Ford, 575.  
C. H. Moore, 563.  
E. C. Moore, 575.  
C. P. Parker, 563.
- Fellows, Resident, List of, 579.
- Fenn, W. W., accepts Resident Fellowship, 553.
- Fernald, M. L., New and little known Mexican Plants, chiefly Labiatae, 415, 560; Some New Factors in Determining the Location of Wine-land the Good, 564.
- Ford, W. C., elected Resident Fellow, 575.
- Foreign Honorary Members, deceased, —  
W. F. Kohlrausch, 562.  
F. W. Maitland, 559.

- Foreign Honorary Members, elected, — Sir David Gill, 575.
- Foreign Honorary Members, List of, 588.
- Foslie, M. H., Death of, 559.
- Furnivall, F. J., accepts Foreign Honorary Membership, 553.
- Gases, Friction in, at Low Pressures, 1, 554.
- Gases, Measurement of Pressure and Density in, with the Micro Balance, 558.
- General Fund, 567, 572; Appropriations from the Income of, 573.
- Gentianaceae, Spermatophytes, new or reclassified, chiefly Rubiaceae and, 394, 560.
- Gill, Sir David, elected Foreign Honorary Member, 575.
- Gragg, F. A., A Study of the Greek Epigram before 300 B. C., 561.
- Gray Herbarium of Harvard University, Contributions from, 385.
- Greek Epigram, A Study of the, before 300 B. C., 561.
- Gutzeit Method, The Quantitative Determination of Antimony by the, 19, 554.
- Hall, Edwin H., Air Resistance to Falling Inch Spheres, 377, 560.
- Hall, Edwin H., and Campbell, L. L., On the Electromagnetic and the Thermomagnetic Effects in Soft Iron, 576.
- Harvard College. *See* Harvard University.
- Harvard University, Invitation from, 553; Announcement of, 560.
- Harvard University. *See* Chemical Laboratory, Gray Herbarium, Jefferson Physical Laboratory, and Zoological Laboratory.
- Heidel, W. A., elected Associate Fellow, 559; accepts Associate Fellowship, 560.
- Heidel, W. A., *Περὶ Φύσεως*. A Study of the Conception of Nature among the Pre-Socratics, 77, 554.
- Hesse, C. A., Letter from, 553.
- Historical Society of Pennsylvania, Letter from, 565.
- Hogg, J. L., Friction in Gases at Low Pressures, 1, 554.
- Hostinsky, O., Death of, 560.
- House Committee, Report of, 571.
- House expenses, Appropriations for, 572.
- Hurwitz, S. H., The Reactions of Earthworms to Acids, 576.
- Hydrogen, Discharges of Electricity through, 453, 558.
- Inductive Circuits, Some Illustrations of the Effects of Sudden Changes in the Resistances of, 575.
- International Agrogeological Conference, Second, 565.
- International American Scientific Congress, 565.
- International Congress of Americanists, 17th Congress, 555.
- International Congress of Botany, Third, 559.
- International Congress of Entomology, First, 559.
- International Geological Congress, Eleventh, 565.
- International Zoological Congress, Eighth, 557.
- Iron, Soft, The Forms of the Magnetic Diagrams for Low Fields of Certain very Pure Kinds of, which at very High Excitations show extraordinarily Large Values of  $I$ , 575.
- Iron, Soft, On the Electromagnetic and the Thermomagnetic Effects in, 576.
- Italian Riviera Levante, The, 561.
- Jacobi, H., accepts Foreign Honorary Membership, 553.
- Jefferson Physical Laboratory, Contributions from, 1, 241, 265, 313, 323, 337, 353, 361, 369, 377, 453.
- Johnson, S. W., Death of, 562.
- Jones, G. *See* Baxter, G. P., and Jones, G.
- Joule-Thomson Effect in Water and Carbon Dioxide, On the Applicability of the Law of Corresponding States to the, 241, 558.

- Kennelly, A. E., The Equivalent Circuits of Composite Lines in the Steady State, 29, 554.
- Kinnicutt, L. P., Report of C. M. Warren Committee, 570.
- Kittredge, G. L., Moot Points about Chaucer, 556.
- Kohlrausch, W. F., Death of, 562.
- Labiatae, New and little known Mexican Plants, chiefly, 415, 560.
- Lacunae in the Archives of the Academy, 564.
- Lamina, Homogeneous, The Effect of Leakage at the Edges upon the Temperatures within a, through which Heat is being conducted, 353, 558.
- Lane, G. M., accepts Resident Fellowship, 553.
- Lea, H. C., Death of, 557.
- Leakage, The Effect of, at the Edges upon the Temperatures within a Homogeneous Lamina through which Heat is being conducted, 353, 558.
- Lewis, G. N., and Tolman, R. C., The Principle of Relativity and Non-Newtonian Mechanics, 554.
- Librarian, Report of, 568.
- Library, Appropriation for, 572.
- Light, The Reactions of Amphibians to, 159, 559.
- Lime, On the Equilibrium of the System consisting of Lime, Carbon, Calcium Carbide and Carbon Monoxide, 429, 561.
- Lines, Composite, The Equivalent Circuits of, in the Steady State, 29, 554.
- Lowell, Abbott Lawrence, Inauguration, invitation to, 553; Announcement of, 560.
- Lowell, P., Photographs of Mars and Saturn, 561.
- Lycopodium complanatum, American Forms of, 412, 560.
- Lyon, D. G., Harvard Explorations in Samaria, 560.
- Lyman, Theodore, The Spectrum of a Carbon Compound in the Region of Extremely Short Wave-Lengths, 313, 558.
- Magnet, The Resistance of the Air to a Swinging, 558.
- Magnetic Diagrams, The Forms of the, for Low Fields of Certain very Pure Kinds of Soft Iron which at very High Excitations show extraordinarily Large Values of  $I$ , 575.
- Magnetic Tests upon Iron and Steel Rings, On the Magnitude of an Error which usually affects the Results of, 575.
- Maitland, F. W., Death of, 559.
- Mars and Saturn, Photographs of, 561.
- Massachusetts Institute of Technology. See Rogers Laboratory of Physics.
- Mexican Phanerogams, Notes and new Species, 422, 560.
- Mexican Plants, New and little known, chiefly Labiatae, 415, 560.
- Micro Balance, Measurement of Pressure and Density in Gases with the, 558.
- Moore, C. H., elected Resident Fellow, 563; accepts Resident Fellowship, 565.
- Moore, E. C., elected Resident Fellow, 575.
- Morgan, M. H., Death of, 565.
- Morse, H. W., Measurement of Pressure and Density in Gases with the Micro Balance, 558.
- Morse, H. W., On Evaporation from the Surface of a Solid Sphere, 361, 561; Some Minute Phenomena of Electrolysis, 369, 559.
- Museo Nacional, Mexico, 559.
- Museum of Comparative Zoölogy, Notice from Faculty of, 566.
- Museum of Comparative Zoölogy at Harvard College. See Zoölogical Laboratory.
- Museum of Fine Arts, Invitation from, 555.
- Nature, A Study of the Conception of, among the Pre-Socratics, 77, 554.
- Naval Observatory, Resolution concerning, 557.

- Newcomb, Simon, Death of, 554.  
 Newport, Probate Court, Notice from, 566.  
 Nikitin, Serge, Death of, 557.  
 Niles, W. H., resigns Resident Fellowship, 561.  
 Nobel Prize, 1910, 553.  
 Nominating Committee, appointed, 563.  
 Non-Newtonian Mechanics, The Principle of Relativity and, 554.  
 Officers, elected, ; 573 List of, 577.  
 Ordway, J. M., Death of, 554.  
 Oscillations of a Swinging Body, The Effect of the Damping due to the Surrounding Medium upon the Form of the, 575.  
 Oscillator, Experiments on the Electrical Oscillations of a Hertz Rectilinear, 323, 558.  
 Parker, C. P., elected Resident Fellow, 563; accepts Resident Fellowship, 565.  
 Pavlov, A., Letter from, 553.  
 Pearce, A. S., The Reactions of Amphibians to Light, 159, 559.  
 Peirce, B. O., The Conception of the Derivative of a Scalar Point Function with Respect to Another Similar Function, 337, 558; The Effect of Leakage at the Edges upon the Temperatures within a Homogeneous Lamina through which Heat is being Conducted, 353, 558; The Effect of the Damping due to the Surrounding Medium upon the Form of the Oscillations of a Swinging Body, 575; The Effects of Sudden Changes in the inductions of Certain Forms of Electric Circuits and their Mechanical Analogies, 575; The Forms of the Magnetic Diagrams for Low Fields of Certain very Pure Kinds of Soft Iron which at very High Excitations show extraordinarily Large Values of  $I$ , 575; On the Magnitude of an Error which usually affects the Results of Magnetic Tests upon Iron and Steel Rings, 575; The Resistance of the Air to a Swinging Magnet, 558; Some Illustrations of the Effects of Sudden Changes in the Resistances of Inductive Circuits, 575.  
*Περὶ Φύσεως*, A Study of the Conception of Nature among the Pre-Socratics, 77, 554.  
 Phanerogams, Mexican — Notes and New Species, 422, 560.  
 Phosphorus, A Revision of the Atomic Weight of, 135, 554.  
 Pierce, G. W., Experiments on the Electrical Oscillations of a Hertz Rectilinear Oscillator, 323, 558; Report of the Publication Committee, 571.  
 Policy Committee, 560.  
 Pre-Socratics, A Study of the Conception of Nature among the, 77, 554.  
 Publication, Appropriation for, 573.  
 Publication Committee, Report of, 571.  
 Publication Fund, 568; Appropriation from, 573.  
 Pyrosulphuryl Chloride and Chlorosulphonic Acid, The Preparation and Properties of, 554.  
 Records of Meetings, 553.  
 Relativity and Non-Newtonian Mechanics, The Principle of, 554.  
 Riegel, E. R. *See* Sanger, C. R., and Riegel, E. R.  
 Riegel, E. R. *See* Sanger, C. R., Riegel, E. R., and Whitney, L. H.  
 Ritchie, John, resigns Resident Fellowship, 565.  
 Robinson, B. L., Spermatophytes, new or reclassified, chiefly Rubiaceae and Gentianaceae, 394, 560.  
 Rocks, Igneous, Average Chemical Compositions of, 209, 558.  
 Rogers Laboratory of Physics, Contributions from, 429.  
 Ropes, J. H., accepts Resident Fellowship, 553.  
 Rotch, A. L., Report of Librarian, 568; Delegate to Boston "1915" Conference, 561.



- Rubiaceae and Gentianaceae, Spermatophytes, new or reclassified, chiefly, 394, 560.
- Rumford Committee, Report of, 569, Reports of Progress to, 570.
- Rumford Fund, 567; Appropriations from the Income, 559, 563, 573; Papers published by Aid of, 570.
- Rumford Premium, 602; Award of, 573; Presentation of, 565.
- Samaria, Harvard Explorations in, 560.
- Sanger, C. R., and Riegel, E. R., The Quantitative Determination of Antimony by the Gutzeit Method, 19, 554.
- Sanger, C. R., Riegel, E. R., and Whitney, L. H., The Preparation and Properties of Pyrosulphuryl Chloride and Chlorsulphonic Acid, 554.
- Saturn and Mars, Photographs of, 561.
- Scalar Point Function, The Conception of the Derivative of a, with Respect to another Similar Function, 337, 558.
- Sellers, W., Death of, 562.
- Silver Phosphate, The Analysis of, 135, 554.
- Slipher, V. M., accepts Associate Fellowship, 565.
- Spermatophytes, new or reclassified, chiefly Rubiaceae and Gentianaceae, 394, 560.
- Sphere, Solid, On Evaporation from the Surface of a, 361, 561.
- Spillman, W. J., Letter from, 553.
- Standing Committees, appointed, 574; List of, 577.
- Standing Votes, 601.
- Statutes, 591; Committee on Amendment of, 564.
- Steam, Notes on Certain Thermal Properties of, 265, 558.
- Sumner, W. G., Death of, 565.
- Taft, President, Letter from, 561.
- Thompson, M. De K., LIII. — On the Equilibrium of the System consisting of Lime, Carbon, Calcium Carbide and Carbon Monoxide, 429, 561.
- Tolman, R. C. *See* Lewis, G. N., and Tolman, R. C.
- Treasurer, Report of, 566.
- Trowbridge, John, Discharges of Electricity through Hydrogen, 453, 558; The Future of Aeroplanes, 554.
- Universal Race Congress, 561.
- Vaggas I.-IV., An Analysis of, 465, 558.
- Volterra, V., Letter from, 562.
- Ware, W. R., Report of House Committee, 571.
- Warren (C. M.) Committee, Report of, 570.
- Warren (C. M.) Fund, 567; Appropriations from the Income of, 573.
- Water and Carbon Dioxide, On the Applicability of the Law of Corresponding States to the Joule-Thomson Effect in, 241, 558.
- Wave-Lengths, The Spectrum of a Carbon Compound in the Region of Extremely Short, 313, 558.
- Weatherby, C. A., American Forms of *Lycopodium comp'anatum*, 412, 560; Mexican Phanerogams — Notes and new Species, 422, 560; A Preliminary Synopsis of the Genus *Echeandia*, 387, 560.
- Whitney, L. H. *See* Sanger, C. R., Riegel, E. R., and Whitney, L. H.
- Wine and the Good, Some New Factors in Determining the Location of, 564.
- Wood, R. W., Presented Rumford Medals, 565; Photography with Invisible Rays, 565.
- World's Congress of International Associations, 565.
- Yellowstone National Park, Photographs of, 558.
- Zavodny, J., Letter from, 553.
- Zoölogical Laboratory of the Museum of Comparative Zoölogy, Contributions from, 159.

